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### 1. 13: MEMBRANES AND MATERIALS FOR ENERGY EFFICIENCY

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Separation technologies recover, isolate, and purify products in virtually every industrial process. Using membranes rather than conventional energy intensive technologies for separations could dramatically reduce energy use and costs in key industrial processes [1]. Separation processes represent 40 to 70 percent of both capital and operating costs in industry. They also account for 45 percent o ...

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### 2. b: Innovative Durable Materials for Extreme Use Conditions

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Hydrogen is used in a broad range of applications such as petroleum refining, NH<sub>3</sub> and biofuels production, hydrogen fuel cell electric vehicles (FCEVs), as well as for energy storage through injection into natural gas pipelines. Use of hydrogen results in the need for innovative durable sealing materials for extreme use conditions that exhibit low hydrogen permeability and high durability in dynam ...

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### 3. c: Electronic Organic Materials Research for Solid State Lighting

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Advancements in Organic Light Emitting Diodes (OLEDs) have produced remarkable improvements in performance and stability since the initial introduction of white phosphorescent devices two decades ago. Like many other electronic organic materials systems that are of interest today, a number of technical hurdles remain and are the subject of the following basic research and commercialization sugges ...

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### 4. d: Other

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the subtopics listed above, the Department solicits applications in other areas that fall within the specific scope of the topic description above.

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### 5. 14: ADVANCED FOSSIL ENERGY TECHNOLOGY RESEARCH

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

For the foreseeable future, the energy needed to sustain economic growth will continue to come largely from hydrocarbon fuels. In supplying this energy need, however, the Nation must address growing global and regional environmental concerns, supply issues, and energy prices. Maintaining low-cost energy in the face of growing demand, diminishing supply, and increasing environmental pressure requi ...

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#### **6. b: Cost-Effective Interconnect Coating Process Development**

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Grant applications are sought to identify and develop cost-effective processes for the application of high-quality yttria-stabilized zirconia (YSZ) coatings to SOFC interconnects in a mass production scenario. High temperature (650C to 850C) planar SOFC stacks are comprised of alternating fuel and air chambers, which are sealed from each other by the SOFC cell and interconnect plates - typicall ...

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#### **7. c: Development of Enhanced Durability High-Temperature Coatings for Utility-Scale Gas Turbine Hot Gas Path Components**

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Grant applications are sought for the research and development of new chemistries and architectures for coating systems (Bond Coats (BC) and Thermal Barrier Coatings (TBCs)) with enhanced durability. These coatings should have suitable thermal expansion properties such that they can be used to coat metallic super-alloy components operating within advanced gas turbines with turbine inlet temperatu ...

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#### **8. d: Advanced, High Efficiency Heat Transfer Technologies for Industrial or Utility Applications**

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Despite their higher cost and larger system size, dry cooling systems are currently the only alternative for industrial or utility power plants unable to obtain permits for cooling water. Because of this, lower cost highly efficient advanced large scale heat transfer technologies that eliminate the need for cooling water would find a market with industrial and utility plants in areas with competi ...

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#### **9. e: Other**

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date:

10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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### **10. [b: Advanced Shale Gas Recovery Technologies for Horizontal Well Completion Optimization](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Proposals are sought to develop and test technologies that will reduce the amount of water needed for hydraulic fracturing when completing natural gas wells or that will improve the apparent low (<30%) natural gas and liquids recovery efficiency currently associated with horizontal, hydraulically fractured wells producing from shale formations. Proposals should focus on addressing a number ...

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